

1       **Claim 1. (original)** A chemical dispensing apparatus for use with an air  
2       conditioning or heating system to reduce airborne contaminants from the air  
3       stream of a conditioned space comprising a chemical supply section including  
4       a chemical reservoir and a chemical delivery device to store and supply  
5       chemical to the contaminated air stream and a dispensing control section  
6       including a microprocessor control to selectively control the dispensing of  
7       chemical to the contaminated air stream.

1       **Claim 2. (original)** The chemical dispensing apparatus of Claim 1 wherein  
2       said chemical reservoir comprises a chemical storage container and a  
3       chemical feed control.

1       **Claim 3. (original)** The chemical dispensing apparatus of Claim 2 wherein  
2       the chemical delivery section comprises a chemical dispensing device coupled  
3       to said chemical storage container by a chemical supply conduit through a  
4       chemical flow control.

1       **Claim 4. (original)** The chemical dispensing apparatus of Claim 3 wherein  
2       said chemical flow control comprises a normally closed flow control valve  
3       selectively movable between an open position and a closed position coupled  
4       to said dispensing control section by a conductor to receive actuating signals  
5       therefrom to selectively move from said normally closed position to said open

6 position to allow the chemical to flow from said chemical storage container to  
7 the air handler.

1 **Claim 5. (currently amended)** The chemical dispensing apparatus of  
2 Claim 4 ~~wherein said chemical feed control~~ wherein said chemical dispensing  
3 device comprises an atomizing nozzle coupled to the chemical storage  
4 container.

1 **Claim 6. (original)** The chemical dispensing apparatus of Claim 4  
2 wherein said chemical feed control is a check valve.

1 **Claim 7. (original)** The chemical dispensing apparatus of Claim 6 further  
2 including a blower control to receive control or actuating signals to selectively  
3 actuate or energize a blower when chemical is dispensed from said chemical  
4 storage container.

1 **Claim 8. (original)** The chemical dispensing apparatus of Claim 7 wherein  
2 said blower control includes a transformer and blower control relay box.

1 **Claim 9. (original)** The chemical dispensing apparatus of Claim 1 wherein  
2 said dispensing control section comprises a microprocessor control device  
3 including a display to provide a visual display of the system status.

1       **Claim 10. (original)** The chemical dispensing apparatus of Claim 9  
2       wherein said microprocessor control device controls the operating cycle by the  
3       frequency of application and duration of dispensing of the chemical.

1       **Claim 11. (original)** The chemical dispensing apparatus of Claim 10  
2       wherein said microprocessor control device includes an up control key and a  
3       down control key to selectively control said operating cycle.

1       **Claim 12. (original)** The chemical dispensing apparatus of Claim 9  
2       wherein said microprocessor control device monitors and records the  
3       operation of said chemical dispensing apparatus.

1       **Claim 13. (original)** The chemical dispensing apparatus of Claim 9  
2       wherein said microprocessor control device monitors consumption of  
3       chemical.

1       **Claim 14. (original)** The chemical dispensing apparatus of Claim 13  
2       wherein said microprocessor control devices monitors consumption of  
3       chemical through dispensing rate calculations.

1       **Claim 15. (original)** The chemical dispensing apparatus of Claim 14  
2       wherein said display includes a display of chemical in said reservoir.

1       **Claim 16. (original)** The chemical dispensing apparatus of Claim 13  
2       wherein said microprocessor control devices monitors consumption of  
3       chemical through a sensor.

1       **Claim 17. (original)** The chemical dispensing apparatus of Claim 16  
2       wherein said display includes a display of chemical in said reservoir.

1       **Claim 18. (original)** The chemical dispensing apparatus of Claim 15  
2       wherein the chemical may be manually dispensed by pressing a program  
3       mode key and then pressing a manual injection key.